

8PM
5/25/04

	Type	Hits	Search Text
1	BRS	461	705/28.ccls.
2	BRS	703	collect\$3 near5 (sales sold near3 data)
3	BRS	11	705/28.ccls. and (collect\$3 near5 (sales sold near3 data))
4	BRS	975	705/16-25.ccls.
5	BRS	82	705/28.ccls. and 705/16-25.ccls.
6	BRS	379	705/28.ccls. not (705/28.ccls. and 705/16-25.ccls.)
7	BRS	150	705/22.ccls.
8	BRS	90	705/22.ccls. not ((705/28.ccls. and 705/16-25.ccls.) or (705/28.ccls. not (705/28.ccls. and 705/16-25.ccls.)))
9	BRS	27606	(sales transaction purchase) near3 (data information)
10	BRS	0	out adj of adj stock
11	BRS	1953	out adj2 stock
12	BRS	148	(out adj2 stock) and ((sales transaction purchase) near3 (data information))
13	BRS	1111547	database table
14	BRS	115	((out adj2 stock) and ((sales transaction purchase) near3 (data information))) and (database table)
15	BRS	22102	pos or point adj2 sale
16	BRS	1953	out adj2 stock
17	BRS	86	(pos or point adj2 sale) and (out adj2 stock)
18	BRS	48	inventory and ((pos or point adj2 sale) and (out adj2 stock))
19	BRS	165712	alert alarm
20	BRS	11	(inventory and ((pos or point adj2 sale) and (out adj2 stock))) and (alert alarm)
21	BRS	37	(inventory and ((pos or point adj2 sale) and (out adj2 stock))) not ((inventory and ((pos or point adj2 sale) and (out adj2 stock))) and (alert alarm))

	DBs	Time Stamp	Comments	Error Definition
1	USPAT; EPO; DERWENT	2004/05/23 16:13		
2	USPAT; EPO; DERWENT	2004/05/23 16:16		
3	USPAT; EPO; DERWENT	2004/05/23 16:22		
4	USPAT; EPO; DERWENT	2004/05/23 16:23		
5	USPAT; EPO; DERWENT	2004/05/23 17:00		
6	USPAT; EPO; DERWENT	2004/05/23 17:54		
7	USPAT; EPO; DERWENT	2004/05/23 17:54		
8	USPAT; EPO; DERWENT	2004/05/23 18:34		
9	USPAT; EPO; DERWENT	2004/05/23 18:34		
10	USPAT; EPO; DERWENT	2004/05/23 18:35		
11	USPAT; EPO; DERWENT	2004/05/23 18:35		
12	USPAT; EPO; DERWENT	2004/05/23 18:35		
13	USPAT; EPO; DERWENT	2004/05/23 18:35		
14	USPAT; EPO; DERWENT	2004/05/24 15:38		
15	USPAT; EPO; DERWENT	2004/05/24 15:39		
16	USPAT; EPO; DERWENT	2004/05/24 15:40		
17	USPAT; EPO; DERWENT	2004/05/24 15:40		
18	USPAT; EPO; DERWENT	2004/05/24 15:41		
19	USPAT; EPO; DERWENT	2004/05/24 15:41		
20	USPAT; EPO; DERWENT	2004/05/24 15:46		
21	USPAT; EPO; DERWENT	2004/05/24 15:46		

	Errors
1	0
2	0
3	0
4	0
5	0
6	0
7	0
8	0
9	0
10	0
11	0
12	0
13	0
14	0
15	0
16	0
17	0
18	0
19	0
20	0
21	0



US006360254B1

(12) **United States Patent**
Linden et al.

(10) **Patent No.:** US 6,360,254 B1
(45) **Date of Patent:** Mar. 19, 2002

(54) **SYSTEM AND METHOD FOR PROVIDING SECURE URL-BASED ACCESS TO PRIVATE RESOURCES**

6,038,597 A * 3/2000 Van Wyngarden 709/219
6,192,407 B1 2/2001 Smith et al.

* cited by examiner

(75) **Inventors:** Gregory D. Linden, Seattle; Michael D. McDaniel, Redmond; Ryan J. Snodgrass, Kirkland; Joel R. Spiegel, Woodinville, all of WA (US)

Primary Examiner—Viet D. Vu

(74) *Attorney, Agent, or Firm*—Knobbe, Martens, Olson & Bear LLP

(73) **Assignee:** Amazon.com Holdings, Inc., Seattle, WA (US)

(*) **Notice:** Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) **Appl. No.:** 09/280,513

(22) **Filed:** Mar. 30, 1999

Related U.S. Application Data

(60) Provisional application No. 60/100,297, filed on Sep. 15, 1998.

(51) **Int. Cl.⁷** G06F 13/00

(52) **U.S. Cl.** 709/219; 709/206; 709/225; 713/201

(58) **Field of Search** 709/203, 206, 709/217, 219, 223, 224, 225, 313, 329; 713/201

(56) References Cited

U.S. PATENT DOCUMENTS

5,708,780 A 1/1998 Levergood et al.
5,790,793 A 8/1998 Higley
5,812,769 A 9/1998 Graber et al.

(57) ABSTRACT

In a Web site system in which different private records or other resources are personal to different users, a method is provided for allowing users to securely access a private resource without the need to enter a username, password, or other authentication information, and without the need to download special authentication software or data to the user's computer. Each resource is assigned a private uniform resource locator (URL) which includes a fixed character string and a unique token, and the URLs are conveyed by email (preferably using hyperlinks) to users that are entitled to access such resources. The tokens are generated using a method which distributes the tokens substantially randomly over the range of allowable token values ("token space"). The token space is selected to be sufficiently large relative to the expected number of valid tokens to inhibit the identification of valid tokens through trial and error. When a user attempts to access a private URL (such as to access a private account information page), a token validation program is used to determine whether the token is valid. The method may be used to provide users secure to access private account information on the Web site of merchant. Other practical applications include electronic gift certificate and coupon redemption, gift registries, order confirmation electronic voting, and electronic greeting cards.

36 Claims, 12 Drawing Sheets

